

Work Order ID 163405

Tuesday, June 27, 2017 11:38:08 AM

163405

Page 1

Item ID: K10003 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Saddle
Start Date: 6/19/2017 Start Qty: 4.00 ***4*** Cust Item ID:
Required Date: 6/27/2017 Req'd Qty: 4.00 ***4*** Customer:
Reference:

Approvals: Process Plan: DAS 21 9-89 Date: JUL 03 2017 Tooling: _____ Date: _____
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____
Run Start ***NR1***
Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
IIN634,635	H								
100	Document Control								
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Create White labels only per PPP K10003								
						4	DAS 28 9-89	AUG 14 2017	
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
						4	DAS 6 9-89	DAS 27 9-89	AUG 11 2017
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.12							
Quality Control									
						4	DAS 28 9-89	AUG 14 2017	

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : ☐					

Work Order ID 163405***163405***

Page 2

Tuesday, June 27, 2017 11:38:08 AM

Item ID: K10003

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Saddle

Start Date: 6/19/2017 Start Qty: 4.00

4

Cust Item ID:

Required Date: 6/27/2017 Req'd Qty: 4.00

4

Customer:

Reference:

Approvals:

Process Plan: _____

Date: _____

Tooling: _____

Date: _____

Run Start ***NR1***

QC: _____

Date: _____

SPC (Y/N): _____

Date: _____

Stop ***NR2***Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp
AUG 14 2017

130

Identify as per dwg & Stock Location: *Fg128*

0.00

130

Packaging

Memo

0.04

Packaging

*4***DAS
28
9-89**

140

QC21- Final Inspection - Work Order Release

0.00

140

QC

Memo

0.40

Quality Control

**DAS
21
9-89**

AUG 16 2017



AUG 14 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
				Completed By					
				Lead hand / Supervisor Approval Verification					
				QC / QA Coordinator Approval					

Root Cause			FAULT CATEGORY							
Environment ☐	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong
Design ☐	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions
Doc/Data ☐	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance
Equip/Tooling ☐	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect
Handling/Pre ☐	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing
Material ☐	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved
Internal Transport ☐	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing
Tribal Knowledge ☐	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish
LOA ☐	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread
Substation ☐	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence
Past Expiry Date ☐	☐	Manufacturing Process	OTHER :							
Misidentified ☐	☐	Past Due								

Picklist Print

Tuesday, June 27, 2017 11:38:04 AM

Page 1

Work Order ID: 163405

163405

Parent Item: K10003

K10003

Parent Item Name: Saddle

Start Date: 6/19/2017

Required Date: 6/27/2017

Start Qty: 4.00

Required Qty: 4.00

Comments: IPP: I 03.01.16 Reformat: Incorporated D205-641-011 KJ/RF
 IPP: J 06-07-25 As per DSI 9344 JLM
 IPP: K 06.11.17 Per K10003 Rev C KJ
 IPP: L 07.01.12 Document Record for copying bluefile rmv KJ
 IPP Rev:M 08-08-12 now @ chg 006 (DSI 9418) DD verified by:
 IPP N 09.01.27 DSI 9418 rev B EC verified by: DD IPP Rev:O
 11.03.11 per dsi9536 DD verf:EC IPP REV:P 12.01.23 AS
 PER ECN11-684 VERF:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
AN4-51A *AN4-51A* Bolt		Purchased	No			110	Each	80.0000	8 **	32		AUG 11 2017	DAS 27 9-89
				<u>Location</u>				<u>Loc Qty</u>					
				FG				5					
				122993				5					
				ST340				75					
				m137480				75		32			
AN4-6A *AN4-6A* BOLT		Purchased	No			110	Each	557.0000	16 **	64		AUG 11 2017	DAS 27 9-89
				<u>Location</u>				<u>Loc Qty</u>					
				ST345				557					
				M137464				557		137951			

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval																																																									
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER :			
Misidentified ☐	Past Due ☐																																																																

Picklist Print

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Page 2

Work Order ID: 163405

163405

Parent Item: K10003

K10003

Parent Item Name: Saddle

Start Date: 6/19/2017

Required Date: 6/27/2017

Start Qty: 4.00

Required Qty: 4.00

AN4C46A

Purchased

No

110

Each

218.0000

4

16

DAS
6
9-89

AN4C46A

Bolt

**

AUG 11 2017

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

FG

8

123642

2

m132169

6

OVER002

100

m137316

100

ST341

110

m137316

110

AN6-12A

Purchased

No

110

Each

60.0000

8

32

**

DAS
6
9-89

AUG 11 2017

DAS
27
9-89

AN6-12A

Bolt

Location

Loc Qty

Loc Code

ST335

60

M136986

6

M137333

54

DAS
28
9-89

Tuesday, June 27, 2017 11:38:05 AM

Shop Packet Print

Page 2

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY			
Environment ☐		No Re-verification ☐		Pressure/Forced ☐		Temperature/Cure ☐	
Design ☐		Operator ☐		Bending ☐		Set-up ☐	
Doc/Data ☐		Offset/Setup ☐		Centre Not Concentric ☐		BOM/Route ☐	
Equip/Tooling ☐		Supplier ☐		Cracks ☐		Broken/Damage/Defect ☐	
Handling/Pre ☐		Training ☐		Crimp/Kink/Ripple/Wave ☐		Inspection Incomplete/Unqualified ☐	
Material ☐		Use for Testing ☐		Cuffs ☐		Contamination ☐	
Internal Transport ☐		Poor Information ☐		Crushing ☐		Countersink ☐	
Tribal Knowledge ☐		Rushing ☐		Heat Treat ☐		Cut Too Short ☐	
LOA ☐		Product Improvement ☐		Wave/Twist in Tube ☐		Instructions Incomplete/Unclear ☐	
Substation ☐		Process Improvement ☐		Marks/Chatter ☐		Drill Holes ☐	
Past Expiry Date ☐		Manufacturing Process ☐		OTHER : ☐			
Misidentified ☐		Past Due ☐					

Picklist Print

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Page 3

Work Order ID: 163405

Parent Item: K10003

Parent Item Name: Saddle

163405

K10003

Start Date: 6/19/2017

Required Date: 6/27/2017

Start Qty: 4.00

Required Qty: 4.00

D2570

Manufactured No

110

Each

248.0000

24

96

D2570

Bushing

**

DAS
6
9-89

AUG 1 1 2017

DAS
27
9-89

Location

Loc Qty

Loc Code

FG

12

88781

12

FP001

59

147395

16

150641

13

155735

30

ST008

77

147395

0

150641

0

159964

77

ST012a

100

161302

100

163355 X67

29

DAS
28
9-89

D2571

Manufactured No

110

Each

16.0000

1

4

D2571

Saddle, Fwd, Out

**

DAS
6
9-89

AUG 1 1 2017

DAS
27
9-89

Location

Loc Qty

Loc Code

ST397

16

158815

12

159560

4

1
3

DAS
28
9-89

D2572

Manufactured No

110

Each

14.0000

1

4

D2572

Saddle, Fwd, In

**

DAS
6
9-89

AUG 1 1 2017

DAS
27
9-89

Location

Loc Qty

Loc Code

ST397

14

156278

2

158742

12

1
3

DAS
28
9-89

Tuesday, June 27, 2017 11:38:05 AM

Shop Packet Print

Page 3

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval	
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐				
OTHER : ☐									

Picklist Print

Tuesday, June 27, 2017 11:38:05 AM

Page 4

Work Order ID: 163405

163405

Parent Item: K10003

K10003

Parent Item Name: Saddle

Start Date: 6/19/2017

Required Date: 6/27/2017

Start Qty: 4.00

Required Qty: 4.00

D2573

Manufactured No

110 Each

18.0000

1 4

D2573

Saddle, Aft, Out

DAS
28
9-89

**

DAS
6
9-89

AUG 11 2017
DAS
27
9-89

Location

Loc Qty

Loc Code

ST398

18

158816

12

159559

6

D2574

Manufactured No

110 Each

12.0000

1 4

D2574

Saddle, Aft, In

DAS
28
9-89

**

DAS
6
9-89

AUG 11 2017

DAS
27
9-89

Location

Loc Qty

Loc Code

ST398

12

158743

12

D2747

Manufactured No

110 Each

68.0000

4 16

D2747

Set Screw

DAS
28
9-89

**

DAS
6
9-89

AUG 11 2017

DAS
27
9-89

Location

Loc Qty

Loc Code

ST010

68

157262

68

D2876

Manufactured No

110 Each

43.0000

2 8

D2876

Saddle Spacer

DAS
28
9-89

**

DAS
6
9-89

AUG 11 2017

DAS
27
9-89

Location

Loc Qty

Loc Code

ST013

43

156220

11

159960

32

Tuesday, June 27, 2017 11:38:05 AM

Shop Packet Print

Page 4

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval	
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER :							

Picklist Print

Tuesday, June 27, 2017 11:38:05 AM

Page 5

Work Order ID: 163405

163405

Parent Item: K10003

K10003

Parent Item Name: Saddle

Start Date: 6/19/2017

Required Date: 6/27/2017

Start Qty: 4.00

Required Qty: 4.00

D2877

Manufactured No

110 Each

36.0000

2 8

D2877

Saddle Spacer

**

DAS
6
9-89

AUG 11 2017

D/ 2
9-1

Location

Loc Qty

Loc Code

ST013

36

156280

6

161769

30

D3405-041

Manufactured No

110 Each

12.0000

1 4

D3405-041

Ground Handling Lug

**

DAS
6
9-89

AUG 11 2017

DAS
27
9-89

Location

Loc Qty

Loc Code

st529

12

159878

12

D3405-043

Manufactured No

110 Each

13.0000

1 4

D3405-043

Ground Handling Lug

**

DAS
6
9-89

AUG 11 2017

DAS
27
9-89

Location

Loc Qty

Loc Code

st529

13

159092

1

159877

12

D3407-041

Manufactured No

110 Each

35.0000

1 4

D3407-041

Tow Ring

**

DAS
6
9-89

AUG 11 2017

DAS
27
9-89

Location

Loc Qty

Loc Code

st530

35

159443

11

161679

8

162967

16

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Shop Packet Print

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐	OTHER : _____							

Picklist Print

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Page 6

Work Order ID: 163405

163405

Parent Item: K10003

K10003

Parent Item Name: Saddle

Start Date: 6/19/2017

Required Date: 6/27/2017

Start Qty: 4.00

Required Qty: 4.00

D3417-5

Manufactured No

110 Each

61.0000

2 8

D3417-5

Washer

DAS
28
9-89

Location

Loc Qty

Loc Code

ST038A

61

158791

61

110 Each

121.0000

1 4

D3456-1

Manufactured No

D3456-1

Washer

DAS
28
9-89

Location

Loc Qty

Loc Code

FG

6

25701

6

ST036

115

159500

19

162291

96

110 Each

27.0000

2 8

D3533-1

Manufactured No

D3533-1

Set Screw

DAS
28
9-89

Location

Loc Qty

Loc Code

ST038

27

156724

27

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																											
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																																																								
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																																																							
Root Cause		FAULT CATEGORY																																																													
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : ☐	
Misidentified ☐	Past Due ☐																																																														

Picklist Print

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Page 7

Work Order ID: 163405

163405

Parent Item: K10003

K10003

Parent Item Name: Saddle

Start Date: 6/19/2017

Required Date: 6/27/2017

Start Qty: 4.00

Required Qty: 4.00

MS21042L4

Purchased

No

110

Each

2,061.000

24

96

MS21042L4

Nut

**

DAS
6
9-89

4-11-2017

DAS
27
9-89

Location

Loc Qty

Loc Code

FP001

10

m133363

10

GA

51

m135058

51

OVER007

1400

m137402

400

m137680

1000

ST303

600

m137544

600

137988

137988

DAS
28
9-89

MS21043-4

Purchased

No

110

Each

750.0000

5

20

MS21043-4

Nut

**

DAS
6
9-89

AUG 11 2017

DAS
27
9-89

Location

Loc Qty

Loc Code

FG

40

104603

40

GA

99

m132803

5

m137371

94

OVER007

300

m137886

300

ST302

311

m137361

111

m137371

200

20

DAS
28
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	OTHER : ☐			

Picklist Print

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Page 8

Work Order ID: 163405

163405

Parent Item: K10003

K10003

Parent Item Name: Saddle

Start Date: 6/19/2017

Required Date: 6/27/2017

Start Qty: 4.00

Required Qty: 4.00

NAS1149D0463J

Purchased

No

110

Each

3,565.000

32

128

NAS1149D0463.J

Washer

**

DAS
6
9-89

AUG 1 1 2017 DAS
27
9-89

Location

Loc Qty

Loc Code

GA

40

M135056

40

ST260a

2000

M137699

2000

ST263

1525

M137371

1525

138084

DAS
28
9-89

NAS1149D0663J

Purchased

No

110

Each

696.0000

8

32

NAS1149D0663.J

Washer

**

DAS
6
9-89

AUG 1 1 2017 DAS
27
9-89

Location

Loc Qty

Loc Code

ST260a

600

M137361

600

ST263

96

M136787

96

32

DAS
28
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐	OTHER : ☐							

Work Order ID 163405

Tuesday, June 27, 2017 11:38:08 AM

163405

Page 1

Item ID: K10003 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Saddle
 Start Date: 6/19/2017 Start Qty: 4.00 ***4*** Cust Item ID:
 Required Date: 6/27/2017 Req'd Qty: 4.00 ***4*** Customer:
 Reference:

Approvals: Process Plan: _____ Date: JUL 03 2017 Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
IIN634,635	H								
100	Document Control	0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Create White labels only per PPP K10003								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.12							
Quality Control									

JUL 19 2017

DAS
5
8-89

JUL 24 2017

5.0 PARTS LIST

5.1 Skidtube Installations with Standard Wearshoes

Item	634 -011	634 -015	634 -041	634 -045	634 -047	641 -011	Part Number	Description
	X						D205-634-011	SKIDTUBE INSTALLATION (STANDARD)
		X					D205-634-015	SKIDTUBE INSTALLATION (MODIFIED)
1			X				D205-634-041	SKIDTUBE
		1		X			D205-634-045	SKIDTUBE
					X		D205-634-047	WEARSHOE KIT
1	1	1				X	D205-641-011	GROUND HANDLING KIT
1			1				D2580-041	205 SKIDTUBE ASSEMBLY (STANDARD)
1				1			D2580-045	205 SKIDTUBE ASSEMBLY (MODIFIED)
2A			16	16			D2594-1	* PLUG
2B			16	16			D2594-3	* O-RING
3			1	1			D2855	* AFT CAP
4			2	2			AN3-5A	* BOLT
5			2	2			NAS1149D0332J	* WASHER (AN960JD10L)
6A			1	1	1		D3564-9	* WEARSHOE (REPLACES D2577-1)
7A			1	1	1		D3564-11	* WEARSHOE (REPLACES D2577-3)
8A			1	1	1		D3564-5	* WEARSHOE (REPLACES D2577-5)
9A			1	1	1		D3564-13	* WEARSHOE
10			50	50	50		AN3C4A	* BOLT (REPLACES AN3-4A)
11			50	50	50		NAS1149C0332R	* WASHER (AN960C10L)
12			50	50			ALS4-1032-130	* INSERT
13			2	2			ALS4-1032-225	* INSERT
20	1	1					D2571	SADDLE, FWD OUTSIDE
21	1	1					D2572	SADDLE, FWD INSIDE
22	1	1					D2573	SADDLE, AFT OUTSIDE
23	1	1					D2574	SADDLE, AFT INSIDE
24	8	8					AN4-51A	BOLT
25	16	16					D2570	BUSHINGS
26	8	8					MS21042L4	NUT (OR MS21042-4)
27	8	8					AN6-12A	BOLT
28	8	8					NAS1149D0668J	WASHER (AN960JD616)
29	16	16					AN4-6A	BOLT
30	32	32					NAS1149D0463J	WASHER (AN960JD416)
31	16	16					MS21042L4	NUT (OR MS21042-4)
32	4	4					D2747	SET SCREW
33	2	2					D3533-1	SET SCREW
40	1	1					D3407-041	TOW RING (REPLACES D2968-041)
41	1	1					D3456-1	WASHER
43	1	1					MS21043-4	NUT
44	2	2					D3417-5	WASHER
50						1	D3405-041	LUG ASSEMBLY (REPLACES D2736-1)
51						1	D3405-043	LUG ASSEMBLY (REPLACES D2736-3)
52						4	AN4C46A	BOLT
53						8	D2570	BUSHING
54						4	MS21043-4	NUT (OR MS21042-4)
60	2	2					D2876	SADDLE SPACER
61	2	2					D2877	SADDLE SPACER

*DENOTES THAT PART IS INCLUDED WITH D2580-041/-045 ASSEMBLY ABOVE